Port of Long Beach: Path to Zero Emissions

Renee Moilanen
Manager of Air Quality Practices
More than just cranes and ships, the iconic Port of Long Beach is a key economic engine for Southern California and critical to the world trade ecosystem.

- #2 Busiest port in the U.S.
- $180 billion Worth of cargo is imported through the port annually
- 300 thousand Jobs created regionwide

Although a public agency, the Port’s operations are not supported by tax dollars. Instead, its revenues come from leasing marine terminals.
GREEN PORT POLICY

Leading the way in reducing environmental impacts
CLEAN AIR ACTION PLAN
Decrease emissions from port-related operations
Clean Air Action Plan (CAAP)

Groundbreaking plan to significantly reduce air pollution and health risk

Strategies targeting reductions from all port sources

Developed jointly with POLA, in cooperation with EPA, C

SOURCES OF PORT-RELATED EMISSIONS

- Ocean-going Vessels
- Heavy-Duty Trucks
- Harbor Craft
- Cargo-handling Equipment
- Rail Locomotives
OCEAN GOING VESSELS
VSR, Low Sulfur Fuel, At-berth Controls, Clean Ships
CLEAN TRUCK PROGRAM
Progressive Ban, Dirty Truck Fee, Incentives
Clean Air Progress and Goals

- Diesel Particulate Matter: 85% (2014 Achieved)
- Nitrogen Oxides: 50% (2014 Achieved)
- Sulfur Oxides: 97% (2014 Achieved)
CONTINUED COMMITMENT

Evolution of the Green Port Policy
CAPITAL IMPROVEMENTS

$4+ billion Investment in the Port of the Future
MIDDLE HARBOR
All-electric, remote-controlled yard tractors
BATTERY EXCHANGE

Robots will replace batteries for driverless vehicles
EMERGING TECHNOLOGIES
Investing to accelerate commercial availability of clean technology
ENERGY ISLAND
Advancing green power, clean fuels, energy efficiency